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## Final term Exam



Department: Zoology

Major: Zoo./Chem.

Course Title: Princibles of marine

ecology

Code number: 422 Z

Mark: 60

Date: 2 -1- 2025

Time: One Hour

Question One:	(Write on:)	(15 degree)
Question Onc.	(Wille on.)	(13 degree)

1- Factors limiting coral reef distribution

- 2- Estuaries

3-Ecological role of marine worms  Ouestion Two: (Complete the following) (20 degree)  1- Example of commensal symbiotic relationship
Question Two: (Complete the following) (20 degree)
1- Example of commensal symbiotic relationship
2- Examples of meroplankton are
3- Marine organisms are classified according to the type of life to
4- The continental shelf zone is located between
5- Wave action is an important to organisms as
6- Decline in the Mediterranean fish stock is due to
7- The main different aquatic habitat in Egypt are
8- From the different tropical habitats:
9- The organisms that they can produce their own light in the deep ocean are
10- Organisms found in the deep oceans require adaptations to
11- There are three types of symbioses:
12- The deep oceans are broadly characterised by three major physical variables:
13- Nekton includes
14- The sessile filter feeders such as:
15- Continental shelves are typically high in nutrients, for several reasons
16- The phenomenon where water molecules move from low concentration to high concentrated solutions known as
17- Bacteria derive energy from chemical sources in a process known:
18-Farming of aquatic organisms in fresh or salt water known as

19- Intertidal region have a fluctuations in			
20- The oceans are very important because			
Question Three: (Write the correct selection) (10 degree)			
1-Marine protozoa with external shell:- a- Cephalopoda b- Foraminifera c- Oligochaeta d- Cyanophyta			
2- Eat both plant and animal food:- a- Omnivores b- Herbivores c- Carnivores d- Detritivores			
3- Water depth in it not exceed than 200 m:- a- Deep zone b- Continental shelves c- Sandy shore d- Rocky shore			
4- Animals live in it will have the ability to tolerate stressful environment:- a- Open sea b- Intertidal region c- benthic region d- Continental shelf			
5-It is cnidarian marine organism:- a- Hydra b- Sea anemone c- Tilapia d- Acantharia			
6-It is an protozoan marine animal:- a- Favia b- Alconium c- Foraminifera d- Euglena			
7-It is the main fouling organism:- a- Balanus b- Paramecium c- Aurelia d- Hydra			
8- They are very important in hatcheries of the economic aquatic organisms:- a- Lepus b- Rotifera c- Euglena d- Sea horse			
9- Hydrozoa catch their prey by:- a- Nematocyste b- Tentacles c- Jellyfish d- Spines			
10- Belonging to Mollusca:- a- Amphipods b- Isopods c- Copepods d- Gastropods			
Question Four: What is the meaning by each of the following:- (10 degree)			
(one or two ward only for each)			
1- They are marine trees with simple leaves and complex root systems.			
2- Are composed of living organisms and their non-living environment.			
3- Occurs where organisms develop close relationships to each other			
4- A group of organisms of the same species that occupies a specific area.			
5- Aquatic organisms that can actively swim.			
6- The organisms with week or without locomotor organs.			
7- Are highly productive area.			

- 8- Bacteria derive energy from chemical sources.
- 9- Are the most important nutrients for the growth of algae and aquatic plants.
- 10- Are the most abundant organisms in the oceans.

## Question Five: (write True or False) (5 degree)

- 1- Hydra belonging to class Hydrozoa and live in fresh water.
- 2- Marine biodiversity is not affected by light.
- 3- The organisms in great depths can able to adaptation.
- 4- The decomposition of organic materials decrease dissolved oxygen in the water.
- 5- The algal blooms resulted from the eutrophication in the aquatic environment.
- 6- Holoplanktons are planktonic throughout their entire lives.
- 7- Balanus are one from the most important fouling organisms.
- 8- Much polluted water is dumped into the world's oceans.
- 9- Density increase in fresh water than marine water.
- 10-There is an interactions between plankton and nekton organisms.

## With Best Wishes

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